



## Project Description:

A low cost custom encryption algorithm for authentication to permit personalized access to a web site use associated with a high volume toy.

## Key Features / Project Highlights:

- Created a custom User Code Encryption/Decryption system, providing complete documentation and canonical reference code in "C" for ease of deployment in (or porting to) any software environment
- Refined requirements, researched existing algorithms, architected encoding/encryption scheme, designed detailed algorithm, coded and tested system, delivered documentation and reference code
- User Code Encryption system involves composition of multiple client-specified fields, adding of redundancy error check information, and encryption using industry-standard techniques, including those used in DES, 3DES, RC5 and many other common encryption standards
- Exceeded required level of security while limiting computational complexity and meeting development cost goal



## About LocoLabs:

LocoLabs is a Silicon Valley, CA provider of custom and turnkey development platforms and modules for embedded designers. It is our mission to accelerate your product development, drawing on more than a decade of experience tackling tough embedded design problems for leading suppliers of consumer, computing and commercial systems.

In our engineering and design work, LocoLabs customers call us the "Rev-Zero" company. With success stories in consumer electronics, commercial robotics, HD video and instantly deployable wireless networking, our experience reinforces the value of fast prototyping and hardware/software co-design. LocoLabs' cross-trained Embedded, Multimedia, Wireless and Linux experts in our Silicon Valley design center are available to support your rapid product development.

